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File No.: J141 0003
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner For Patents
Box Patent Application
Washington, D. C. 20231

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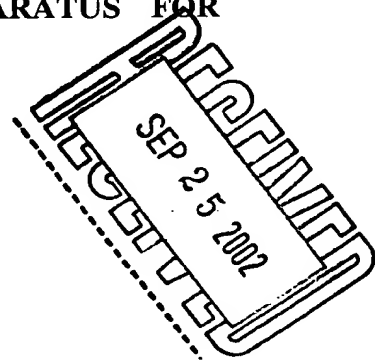
SEP 23 2002

Technology Center 2600

Dear Sir:

Transmitted herewith for filing in regard to the patent application of:

Inventor(s): JORGENSON, Loki
Title: **SIGNATURE MATCHING METHODS AND APPARATUS FOR
PERFORMING NETWORK DIAGNOSTICS**
Serial No.: 09/990,381
Filed: 23 November 2001

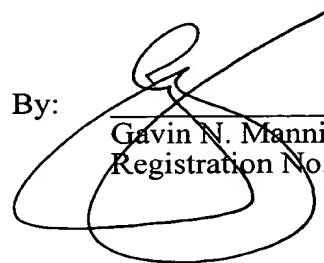


Enclosed are:

- [X] Information Disclosure Statement;
- [X] Form PTO-1449 and copies of documents listed thereon.
- [X] The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 02-1037.

Respectfully submitted,
OYEN WIGGS GREEN & MUTALA

By:


Gavin N. Manning
Registration No. 36,412

Date: 19 September 2002

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Paper No.:

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To: Commissioner for Patents
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Dear Sir:

Disclosure Statement Pursuant to 37 C.F.R. §1.56

Preliminary to the examination of this application, the applicant wishes to draw the Examiner's attention to the references listed on the attached copy of form PTO-1449. For the Examiner's convenience, copies of each of the listed references are submitted herewith.

REMARKS

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If the Examiner applies any of the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Respectfully submitted,
OYEN WIGGS GREEN & MUTALA

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Dear Sir:

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE STATEMENT**
[Form PTO-1449 (Modified)]

United States Patent Documents

Examiner	ID	Patent No.	Issue Date	Inventor(s)	Class	Sub-Cl	Filing Date
	US: 1	4,551,833	5 Nov. 1985	Turner			
	US: 2	5,101,402	31 Mar. 1992	Chiu et al.			
	US: 3	5,343,465	30 Aug. 1994	Khalil			
	US: 4	5,477,531	19 Dec. 1995	McKee et al.			
	US: 5	5,838,919	17 Nov. 1998	Schwaller et al.			
	US: 6	5,937,165	10 Aug. 1999	Schwaller et al.			
	US: 7	6,061,725	9 May 2000	Schwaller et al.			
	US: 8	6,223,207	24 Apr. 2001	Lucovsky et al.			
	US: 9	US 2002/0080726 A1	27 June 2002	Klassen et al.			

Other Art

Examiner	ID	Author, Title, Date, Pertinent Pages, etc.
	OA: 1	B. Melander et al., <i>Probing for Multiple Bandwidth Bottlenecks</i> , 2002.
	OA: 2	A. Pásztor and D. Veitch, <i>A Precision Infrastructure for Active Probing</i> , PAM 2001
	OA: 3	K. Lai and M. Baker, <i>Nettimer: A Tool for Measuring Bottleneck Link Bandwidth</i> , 4 April 2001, pp. 1 - 13.
	OA: 4	C. Dovrolis, P. Ramanathan and D. Moore, <i>What do packet dispersion techniques measure?</i> , InfoCOM'01.

	OA: 5	K. Lai and M. Baker, <i>Measuring Link Bandwidths Using a Deterministic Model of Packet Delay</i> , InfoCOM'00.
	OA: 6	B. Melander, M. Björkman and P. Gunningberg, <i>A New End-to-End Probing and Analysis Method for Estimating Bandwidth Bottlenecks</i> , Glodacom 2000.
	OA: 7	S. Alouf, P. Nain and D. Towsley, <i>Inferring Network Characteristics via Moment-Based Estimators</i> , InfoCOM'01.
	OA: 8	M. Allman and V. Paxson, <i>On Estimating End-to-End Network Path Properties</i> , SIGComm'99.
	OA: 9	R.L. Carter and M.E. Crovella, <i>Measuring Bottleneck Link Speed in Packet-Switched Networks</i> , 15 March 1996, pp. 1 - 24.
	OA: 10	G. Jin, G. Yang, B.R. Crowley and D.A. Agarwal, <i>Network Characterization Service (NCS)*</i> , 2001.
	OA: 11	S. Savage, <i>Sting: A TCP-Based Network Measurement Tool</i> , 1999, The USENIX Association.
	OA: 12	L. Cottrell, <i>Comparison of some Internet Active End-to-End Performance Measurement Projects</i> , 1999.
	OA: 13	K. Lai and M. Baker, <i>Measuring Bandwidth</i> , 1999.
	OA: 14	V. Ribeiro et al., <i>Multifractal Cross-Traffic Estimation</i> , 2000.
	OA: 15	J.G. Cleary and H.S. Martin, <i>Estimating Bandwidth from Passive Measurement Traces</i> , 2001.
	OA: 16	C. Shannon et al., <i>Characteristics of Fragmented IP Traffic on Internet Links</i> , 2001.
	OA: 17	J. C. R. Bennett et al., <i>Packet Reordering is Not Pathological Network Behavior</i> , 1999.
	OA: 18	V. Paxson, <i>End-to-End Internet Packet Dynamics</i> , 1997.
	OA: 19	A. Erramilli et al., <i>Experimental Queuing Analysis with Long-Range Dependent Packet Traffic</i> , 1996.
	OA: 20	P. Nain, <i>Impact of Bursty Traffic on Queues</i> , 2001.
	OA: 21	S. Donnelly et al., <i>Passive Calibration of an Active Measurement System</i> , 2001.
	OA: 22	P. Barford and M. Crovella, <i>Measuring Web Performance in the Wide Area</i> , 1999.
	OA: 23	J. Andrén et al., <i>Understanding End-to-End Internet Traffic Dynamics</i> , 1998.
	OA: 24	S. B. Moon et al., <i>Correlation of Packet Delay and Loss in the Internet</i> , 1998.
	OA: 25	M. Mathis et al., <i>The Macroscopic Behavior of the TCP Congestion Avoidance Algorithm</i> , 1997.
	OA: 26	P. Vincent et al., <i>Measurement-based Performance of Network Elements and Services</i> , 2001.
	OA: 27	V. Ribeiro et al., <i>Multiscale Queuing Analysis of Long-Range-Dependent Network Traffic</i> , 2000.
	OA: 28	W. Matthews and L. Cottrell, <i>The PingER Project: Active Internet Performance Monitoring for the HENP Community</i> , 2000.
	OA: 29	M. Yajnik et al., <i>Measurement and Modelling of the Temporal Dependence in Packet Loss</i> , 1999.

	OA: 30	M. Lucas et al., <i>Statistical Characterization of Wide-Area Self-Similar Network Traffic</i> , 9 October, 1996.
	OA: 31	J. C. Bolot, <i>Characterizing End-to-End Packet Delay and Loss in the Internet</i> , 1993.
	OA: 32	F. Begtašević and P. Van Mieghem, <i>Measurements of the Hopcount in Internet</i> , 6 November 2000.
	OA: 33	B. Ryu et al., <i>Internet Flow Characterization: Adaptive Timeout Strategy and Statistical Modeling</i> , 2001.
	OA: 34	B. Huffaker et al., <i>Macroscopic Analyses of the Infrastructure: Measurement and Visualization of Internet Connectivity and Performance</i> , 2001.
	OA: 35	L. Cottrell and W. Matthews, <i>Comparison of Surveyor and RIPE</i> , 14 March 2000.
	OA: 36	J. Cleary et al., <i>Design Principles for Accurate Passive Measurement</i> , 2000.
	OA: 37	S. Kalidindi and M. J. Zekauskas, <i>Surveyor: An Infrastructure for Internet Performance Measurements</i> , June 1999.
	OA: 38	S. B. Moon et al., <i>Estimation and Removal of Clock Skew from Network Delay Measurements</i> , 1998.
	OA: 39	I. Cidon et al., <i>Analysis of Packet Loss Processes in High-Speed Networks</i> , 1993.
	OA: 40	G. Bianchi et al., <i>Throughput Analysis of End-to-End Measurement-Based Admission Control in IP</i> , 2000.
	OA: 41	A. J. McGregora et al., <i>The NLANR Network Analysis Infrastructure</i> , 2000.
	OA: 42	H. Uijterwaal and O. Kolkman, <i>Internet Delay Measurements Using Test Traffic Design Note</i> , 30 May 1997.

Examiner: _____

Date Considered: _____

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance **and** not considered. Include copy of this form with next communication to applicant.